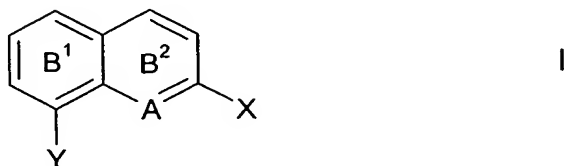


Use of quinaldine and naphthalene derivatives as crystallization modifiers

Abstract

5 The use of compounds of the general formula I

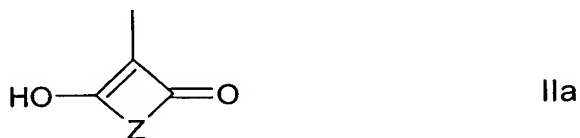


where

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A is =N- or =CH-;

X when A is =N- is methyl or a radical of the formula IIa

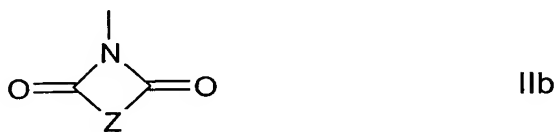


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or when A is =CH- is an R radical;

Y is an R radical or a radical of the formula IIb

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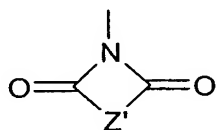
with either X being a radical of the formula IIa or Y being a radical of the formula IIb;

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R is hydrogen, halogen, C₁-C₄-alkyl, -SO₃H, -SO₃⁻ Me⁺, -SO₃⁻ N⁺R¹R²R³R⁴, -SO₂NR¹R², -CH₂NR¹R², -CH₂R⁵, -COOH, -COO⁻ N⁺R¹R²R³R⁴, -COOR⁶ or -COR⁶;

R^1 , R^2 , R^3 and R^4 are each independently hydrogen; C_1 - C_{22} -alkyl or C_2 - C_{22} -alkenyl whose carbon chain may in either case be interrupted by one or more $-O-$, $-S-$, $-NR^7-$, $-CO-$ or $-SO_2-$ moieties and/or which may be substituted by one or more of hydroxyl, halogen, aryl, C_1 - C_4 -alkoxy and acetyl; C_3 - C_8 -cycloalkyl whose carbon skeleton may be interrupted by one or more $-O-$, $-S-$, $-NR^7-$ or $-CO-$ moieties and/or which may be substituted by one or more of hydroxyl, halogen, aryl, C_1 - C_4 -alkoxy and acetyl; hydroabietyl, abietyl or aryl; R^1 and R^2 or R^1 , R^2 and R^3 may combine to form a 5- to 7-membered cyclic radical which contains the nitrogen atom and may contain further hetero atoms;

R^5 is a radical of the formula IIb'



IIb'

R^6 is one of the R^1 alkyl radicals;

R^7 is hydrogen or C_1 - C_4 -alkyl;

Me is an alkali metal ion;

Z and Z' are each independently arylene which may be substituted by one or more of halogen, $-SO_3H$, $-SO_3^- Me^+$, $-SO_3^- N^+R^1R^2R^3R^4$, and C_1 - C_{12} -alkyl, and

the rings B^1 and B^2 may each be independently additionally substituted by one or more identical or different R radicals other than hydrogen,

as crystallization modifiers for organic pigments.